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METHOD AND APPARATUS FOR SUBSTITUTING WOUNDED BIOLOGICAL ORGANIZATION

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Inventor(s): SUCHIBUN JIYOSU MEI; DEBITSUTO JIEEMUSU ANDORIYUZU; KUREIGU RIN
 BAN KIYANPEN ±
Applicant(s): MINNESOTA MINING & MFG ±
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Abstract of JP 2052648 (A)

PURPOSE: To sustain various mechanical properties primarily belonging to an artificial organ over a long period by making the said organ include a belt of structural elements of proof stress with flexural nature, and also include a primary sacrifice layer attached to the belt of structural elements at the primary position where friction is caused between the artificial organ and a patient's bone.
CONSTITUTION: Flexible load resistant band shape constituting elements 30 which are folded to be overlapped at each end to form abrasion resistant sacrifice layers or areas 36 and 38 to form end part loops 32 and 34 are included in an artificial organ 10. An eyelet 42 on the tibia end part of the organ 10 remains outside a perforation tunnel 44 of the tibia and fixed on the front central surface of the tibia 16 by a bone screw 46. Then the eyelet 40 of the organ 10 is fixed on the side surface of the tibia 14 by a bone screw 48. The artificial organ 10 can resist substantial quantity of abrasion without remarkably reducing the load resistance. Thus the effective service life of the artificial organ 10 is remarkably prolonged.

